Amogh Patel

Bachelor of Technology
Computer Science Engineering
Indian Institute Of Information Technology, Sri City

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GitHub LinkedIn Leetcode
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Education

Bachelor of Technology in Computer Science Engineering *November 2020 – June 2024*
Indian Institute Of Information Technology, Sri City 7.99 CGPA

Experience

i2o Retail *August 2024 – Present*
Software Development Engineer I

- Architected and delivered an **end-to-end DocuSign integration** using **OAuth 2.0**, enabling template-based envelope creation, real-time status tracking, and automated retrieval of signed documents — eliminating manual document workflows for enterprise clients.
- Took sole ownership of the **Amazon Seller Portal API microservice** serving **50+ enterprise clients** — resolved critical production issues in **Java/Spring Boot**, enabled new report-download APIs persisting data to **GCS** for the data pipeline team, and managed **Cloud Run triggers** via **scheduled jobs** for internal API orchestration.
- Designed and integrated **marketplace-specific screens**, including a complete **revamp of legacy UI** and development of **reusable Angular components**, improving modularity and reducing future development effort by **30%**.
- Diagnosed and resolved critical regression and production defects, maintaining high application stability for enterprise clients using **Java**, **Spring Boot**, **PostgreSQL**, and **BigQuery**.

i2o Retail *February 2024 – July 2024*
Software Engineer Intern

- Built a **User Management Interface** enabling streamlined user creation and role assignment, reducing administrative time by approximately **50%**.
- Engineered a **client onboarding workflow** allowing self-registration, free trial access, and feature preview using **Angular**, **Spring Boot**, and **Keycloak**, improving conversion rates and onboarding speed.

Projects

AI Order Supervisor – Long-Running AI Agent System ***GitHub***
Python, FastAPI, Next.js 15, PostgreSQL, Anthropic Claude SDK, APScheduler, TypeScript **Code**

- Built an **event-driven AI agent system** using **Anthropic Claude SDK** with native **tool use** — agent supervises e-commerce orders across multi-hour runs, executing escalations and risk assessments via 8 purpose-built tools.
- Designed a **sleep/wake lifecycle** with **PostgreSQL** state + **APScheduler** polling (Temporal-style durable execution), plus **crash recovery**, a zero-LLM-cost **event urgency classifier**, and a validated **JSON memory schema** bounding token usage per cycle.
- Developed a **Next.js 15** monitoring dashboard with live activity timelines and run controls (pause/resume/terminate), backed by a **FastAPI** REST API with 10+ endpoints.

StudentHub – Student Issue Management Platform ***Website***
Node.js, Express.js, MongoDB, React.js, JWT, Swagger, Mocha, Chai **Live**

- Developed a web application empowering students to raise issues directly with authorities via a **secure, accessible platform** with role-based access control for admins.
- Secured user data using **JWT-based authentication** and **Bcrypt password hashing**; documented APIs with **Swagger** and unit-tested backend with **Mocha/Chai**.

Technical Skills

- **Programming Languages**: C++, Java, JavaScript, Python, C
- **Frameworks & Databases**: Spring Boot, FastAPI, Angular, React.js, Next.js, Node.js, Express.js, MongoDB, MySQL, PostgreSQL, BigQuery
- **Tools & Technologies**: Git, GitHub, REST APIs, **Microservices**, OAuth 2.0, **Google Cloud Platform (GCP: Cloud Run, GCS)**, Keycloak, JWT, Swagger, Docker, Anthropic Claude SDK

Achievements

Hackathon: Achieved **1st place** in the National **Flipr Hackathon XVI** (Full-stack Web Development)

Competitive Programming: Solved over **500** DSA questions on **Leetcode**, with highest contest rating of **1807**